

What is claim d is:

1. A light-emitting device comprising:
a plurality of light-emitting elements for emitting light of mutually different colors; and
5 one light-detecting element for detecting light emitted from each of the light-emitting elements:

the light-emitting elements and said light- detecting element being mounted onto a substrate.

2. A light-emitting device according to claim 1, wherein
10 the plurality of light-emitting elements comprise three light-emitting chips for emitting light of first, second and three colors, respectively.

3. A light-emitting device according to claim 2, wherein the light-detecting element is arranged at a position substantially equidistant from said three light-emitting chips.

- 15 4. A light-emitting device according to claim 2, wherein the light-emitting elements of the first, second and third colors are arranged at apexes of an equilateral triangle and the light-detecting element is arranged at the center of gravity of said equilateral triangle.

- 20 5. A light-emitting device according to claim 2, which further comprises:

a light emission control portion for applying a predetermined current to the light-emitting elements and allowing the three light-emitting chips to serially emit light with a predetermined time
25 interval among them; and

a light intensity adjustment portion for serially receiving detection signals outputted from light-detecting element in such a fashion as to correspond to intensity of light, analyzing said detection signals and adjusting the current applied to each of the
5 three light-emitting chips so that a predetermined color can be generated.

6. A light-emitting device according to claim 2, wherein the three light-emitting chips are arranged on a substrate, and the light-detecting element is so arranged as not to intercept emitted
10 light.

7. A light-emitting device according to claim 5, wherein the light emission control portion allows the light-detecting element to detect external light incident into the light-detecting element in a time zone in which none of the light-emitting elements emit light,
15 and the light intensity adjustment portion adjusts the current applied to each of the light-emitting elements by use of the detection signal based on external light.

8. A liquid crystal display device using the light-emitting device according to any of claims 1 to 7 as backlight.

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